Differential Privacy: Messaging and Communication Strategies for General Audience

Discussant Comments

By Julio Guity-Guevara | John Sandoval



Census National Advisory Committee
Implementing Differential Privacy for the 2020 Census Data Products Working Group
March 7, 2022

Background: Impacts for Racial and ethnic populations of Previous Interpretations of Census Privacy Laws

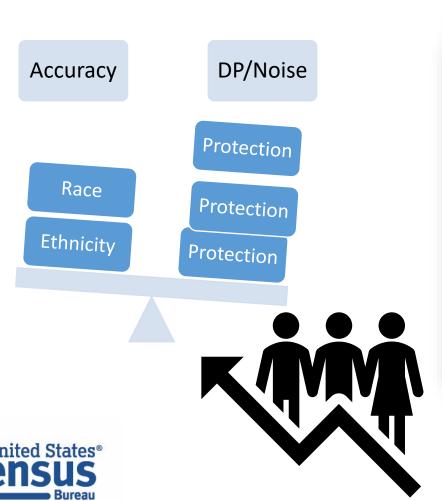


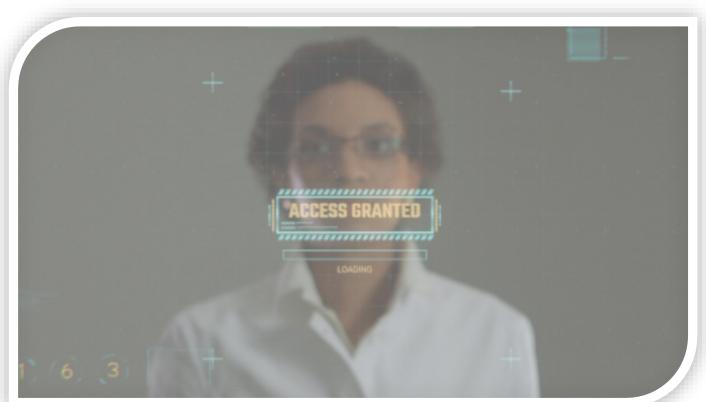




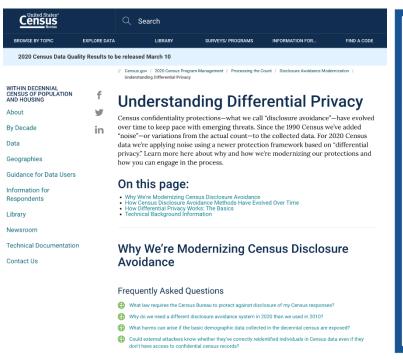


Impacts for Historically Undercounted Populations Race and Ethnic Data Quality

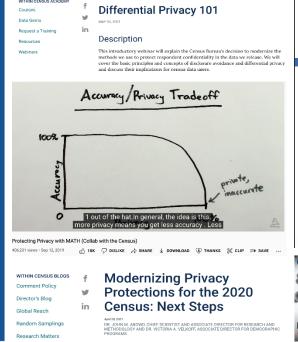




Census Bureau has proactively shared information about DAS and Differential Privacy











Reporting on Differential Privacy highlights tradeoff between accuracy and privacy

The Washington Post

Bloomberg CityLab

Sign In

Social Issues

New system to protect census data may compromise accuracy, some experts say

By Tara Bahrampour and Marissa J. Lang
June 1, 2021 at 7:05 p.m. EDT

ARIZONA

The census has a new process to protect your privacy. It also risks a less accurate count



Published 8:30 a.m. MT Aug. 10, 2021 | Updated 3:45 p.m. MT Aug. 10, 2021

Los Angeles Times

WORLD & NATION

Judges hear arguments over census privacy tool

Data Scientists Square Off Over Trust and Privacy in 2020 Census

As the Census Bureau releases redistricting data, researchers are split over a security measure called differential privacy that can blur population figures.

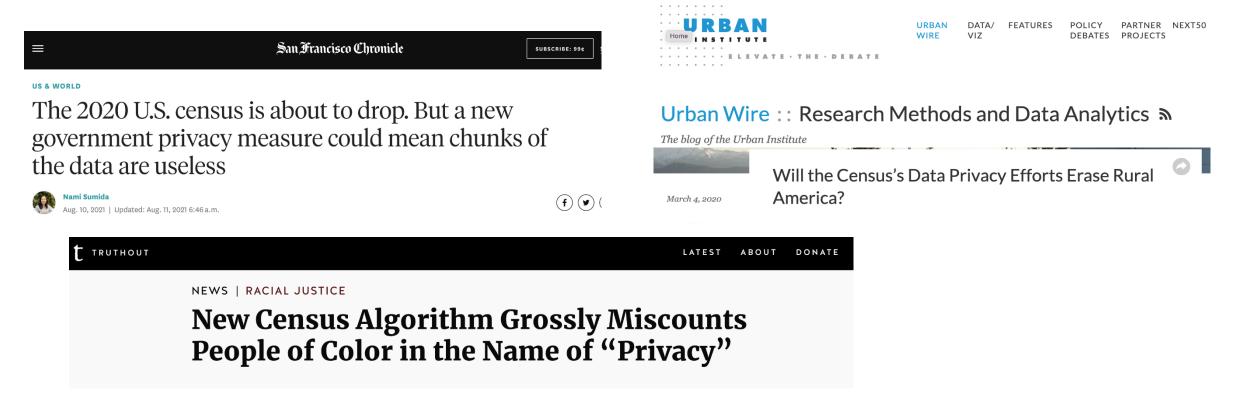
The New York Times

TheUpshot

To Reduce Privacy Risks, the Census Plans to Report Less Accurate Data

Guaranteeing people's confidentiality has become more of a challenge, but some scholars worry that the new system will impede research.

Some media outlets explicitly showcase the potential negative impacts of Differential Privacy



AP



People, homes vanish due to 2020 census' new privacy method

U.S. News World News Politics Sports Entertainment Business Technology Health Science Oddities

Communication Best Practices for General Audience

- Opt for Nontechnical language plain "English"
- Develop a 250-word definition of Differential Privacy that can be digested in one minute
- Use images, pictures and icons to facilitate understanding
- Stand alone document preferred over several inter-dependent documents
- Translate into the 59 languages and dialects used in 2020 Census
- Craft culturally appropriate messaging that has been vetted by in culture experts
- Work with key partners and stakeholders to deliver message and be open to feedback



Crystal Clarity of Messaging around Title 13 and Differential Privacy is needed

Clarification

What does Title 13 require?

Why is Differential Privacy the best tool for the job?

What other tools were considered?

Why was DP not used before?

Is Differential Privacy moot when similar data is available from 3rd party sources?

The New Hork Times

SUNDAY REVIEW | Changes to the Census Could Make Small Towns Disappear

John Abowd, chief scientist at the census, thinks the risk could grow, and argues that in any case, the bureau has a <u>legal obligation</u> to put the algorithm to use in 2020: "We're already under a statutory mandate to enforce confidentiality protection," he said. "We don't have the luxury of rolling it out after we get it perfected."

Will Differential Privacy Work for the 2020 Census?

Yes Differential privacy is the only framework that can provably protect 2020 Census data against known and emerging re-identification threats while producing quality, fit-for-use data. More information is available at https://www.census.gov/library/video/2021/protecting-privacy-in-census-bureau-statistics.html.





Defining WHAT the Message is requires more effort

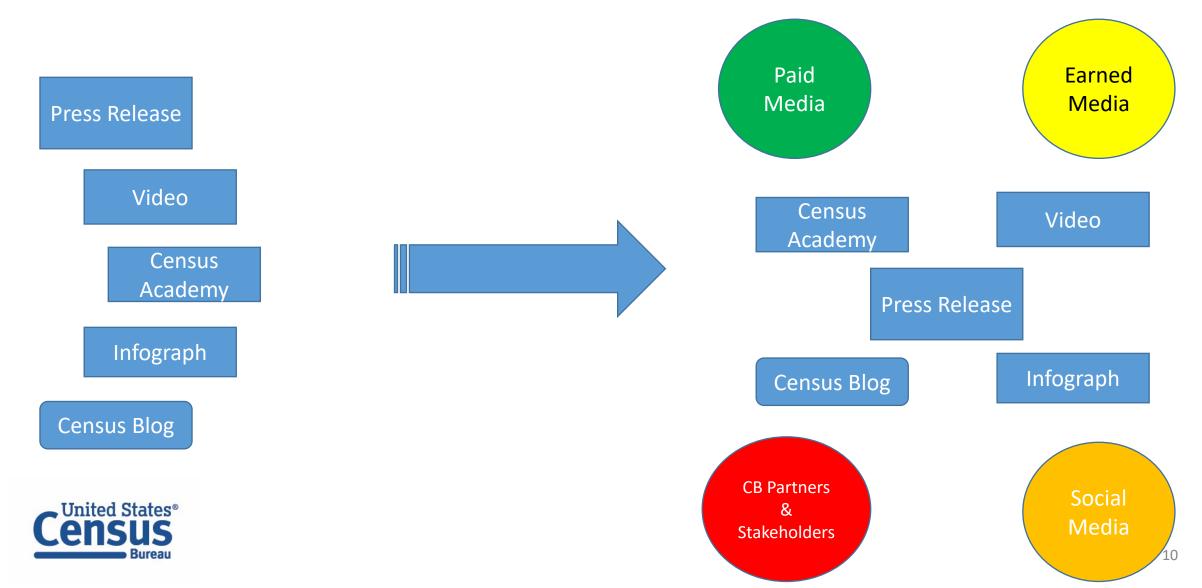
Census Bureau
Communication
on Differential
Privacy

Journalists &
Researchers
Viewpoint on
Differential
Privacy

General Public's
Understanding
and
(Mis)Conception

- Work with CB Partners and Stakeholders to uncover gaps in understanding and misconceptions
- Develop FAQs to bust myths, address doubts and help public grasp a complex topic
- Address concerns on Census Data Products Accuracy head-on
- Explain how Differential Privacy is a "Work In Process" and will be refined over time and use
- Share candid assessment of the impact of Differential Privacy on hard to count populations
- Reinforce value of participating in the Census and the accuracy and reliability of data and data products

HOW you deliver the message is crucial



Considerations for Messaging the General Public

Bureau's decision to use differential privacy as part of its disclosure avoidance

Technological and Methodological Options Outreach Strategies and Surveys



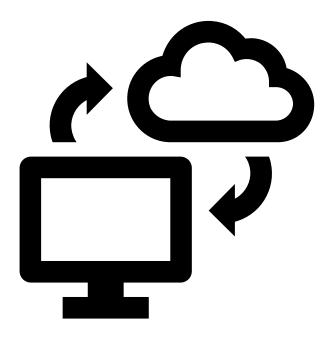


Considerations for Messaging the General Public

Bureau's decision to use differential privacy as part of its disclosure avoidance

Technological and Methodological Options

Outreach Strategies and Surveys

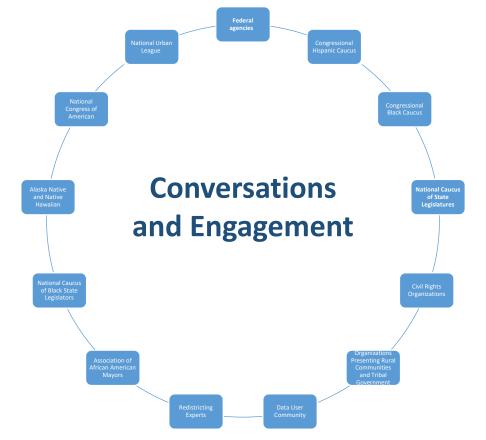




Considerations for Messaging the General Public

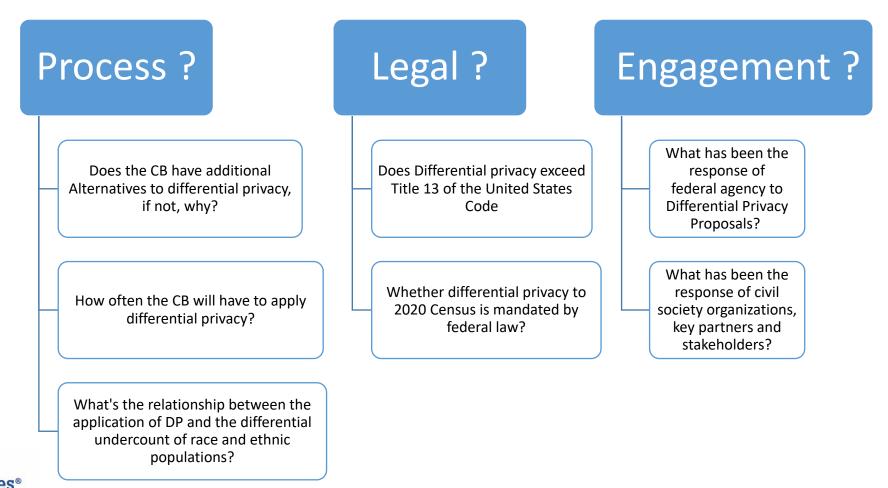
Bureau's decision to use differential privacy as part of its disclosure avoidance Technological and Methodological Options

Outreach Strategies and Surveys





Considerations for Messaging the General Public





COMMITTEE DISCUSSION

For audio to this conference, please dial 1-888-566-6192 (Access Code: 4881978#)

